

# ACTUARIAL MATHEMATICS AND STATISTICS MINOR

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## Minor Requirements (18 Hours)

### Prerequisites

Course	Title	Credits
MATH 141	Calculus I	4
MATH 142	Calculus II	4
MATH 241	Vector Calculus	3
<b>Total Credit Hours</b>		<b>11</b>

### Core Courses

Course	Title	Credits
MATH 511	Probability	3
STAT 512	Mathematical Statistics	3
STAT 513	Theory of Statistical Inference	3
Select three of the following:		9
MATH 344 or MATH 544	Applied Linear Algebra Linear Algebra	
MATH 514 or STAT 522	Financial Mathematics I Financial Mathematics I	
MATH 515 or STAT 523	Financial Mathematics II Financial Mathematics II	
MATH 520	Ordinary Differential Equations	
MATH 524	Nonlinear Optimization	
MATH 570	Discrete Optimization	
MATH 574	Discrete Mathematics I	
STAT 520	Forecasting and Time Series	
STAT 521	Applied Stochastic Processes	
STAT 587 or CSCE 587	Big Data Analytics Big Data Analytics	
<b>Total Credit Hours</b>		<b>18</b>

Note: Only one of MATH 344/MATH 544 may be counted for the minor.